United States Patent [19]

Cornwell et al.

[11] **4,088,804**

[45] **May 9, 1978**

[54] **CEMENTITIOUS COATINGS AND METHOD**

[76] Inventors: **Charles E. Cornwell**, 7104 Marlan Dr.; **Mark Plunguian**, 6912 Columbia Dr., both of Alexandria, Va. 22307

[21] Appl. No.: **768,949**

[22] Filed: **Feb. 16, 1977**

Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 610,990, Sep. 8, 1975, Pat. No. 4,039,170, and Ser. No. 649,895, Jan. 16, 1976, Pat. No. 4,036,839.

[51] **Int. Cl.**[2] **C04B 7/35**; B32B 13/04; B32B 13/06; C04B 39/02

[52] **U.S. Cl.** ..... **428/220**; 106/314; 264/256; 427/427; 260/29.6 S

[58] **Field of Search** ..... 106/314; 260/29.6 S; 264/337, 256; 428/220; 427/427

[56] **References Cited**

U.S. PATENT DOCUMENTS

3,767,436	10/1973	Peppler	106/314 X
3,779,971	12/1973	Isenburg	260/29.6 S
3,879,909	4/1975	Lamoria	260/29.6 S
3,972,723	8/1976	Balle'	106/314 X
3,995,086	11/1976	Plungion	428/409 X
4,014,840	3/1977	Emig	260/29.6 S

Primary Examiner—Thomas P. Pavelko

[57] **ABSTRACT**

Protective and decorative coatings of about two mills and greater thickness are produced from hydraulic cement slurries formulated with finely divided mineral aggregates, a film-forming synthetic polymer latex, a "super" water reducer, and a rust inhibitor. These constituents are formulated into liquid and powder components which are mixed prior to spraying or brushing to produce the coating. The coatings are non-burning and are applicable for interior and exterior use. Very fast set of the cement are obtainable by admixing an accelerator to either the liquid or powder component and mixing the two components continuously by passing through a static in-line mixing device located in a feed line duct just before a spray nozzle.

8 Claims, No Drawings